BARG Newsletter June 2024

Next General Meeting BARG inc
11:00am, Saturday 29th June 2024

At the Airport - All Welcome

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Front Cover: Andy VK3TOT.

Times and dates of nets as below

Club Nets: VHF NET: Every Tuesday Night at 8 pm on 146.750 MHz - VK3RBA
HF NET: Every Thursday Night at 8 pm on 3.608 MHz - VK3BML
6m NET: Every Tuesday Night at 8:30 pm on 53.650Mhz RX / 52.650Mhz TX - FM with a 91.5 tone - VK3RWU

LINKED REPEATERS: *The local VK3RBA-70cm repeater on Mt Buninyong is part of a network of linked repeaters covering North-Western Victoria.*
Access details for this repeater have recently changed.
For full details of this linked network and access details see https://www.qrz.com/lookup/vk3rba
You can listen to the system live http://vk3rba.dyndns.org:441/
This linked system may be accessed via IRLP node 9503.

President's Report June 2024

I finally get back into doing a report after 2 months of almost silence.

To start off this a think you to those who volunteered to help with the BBQ at Bunnings in Delacombe on Sunday the 23rd of June. Most of the volunteers were committee members and it would have been good to see more members involved, do I need to make mention that the Bunnings BBQ's we do keep the membership fees down we need at least 2 every financial year to keep the fees as low as they are.

Break-in at the clubrooms: By now most of the membership will know that there was a break-in sometime after the George Fowler Auction. I have now been asked multiple times about a list of items stolen. Yes, there is a list that was given to police, it has not been released to members for the following reasons.

Lack of identification of items we have not asset register so all items taken are going to be hard to recover if found unless they were marked as BARG, due to this I am very aware of legitimate sellers being accused of having stolen property because a piece of equipment they have for sale was stolen recently from someone else.

The list is by no means complete as we only had a list of sale items that I could look at to determine what had been stolen, I am still remembering items of the clubs and checking for them but finding them gone also.

We lost most of the hand tools we had and various radios that are going to be next to impossible to identify as ours should they be recovered.

At this month's General meeting there will be a lot to go through. Can I ask that if you have any club tools/equipment/items on loan could you please return them by the June General meeting, also with that if you have anything of yours on loan to the club then please make sure it is marked as yours, if it is not, it may by accident be marked as BARG property.

The clubrooms are still off limits to anyone, if you wish to go there outside of club activities, please contact a committee member to let them know you are going there.

There are extra security measures in place at the clubrooms and committee are working to bring out some new procedures, for Clubroom access, Loans both from and to the club, issuing of keys and a few more.

A reminder that the AGM is just around the corner in August. There should be nomination forms in the newsletter.

Until next month Ben VK3NRD.

The Next BARG General Meeting
11:00am, Saturday 29th of June 2024

No BARG Construction Day has been scheduled for July due to the condition of the rooms after the breakin.

BARG inc. OFFICE BEARERS

President	Ben Daniel VK3NRD	Ordinary Member	Tom George VK3DMK
Vice President	Colin Consiglio VK3NCC	Ordinary Member	Ian Fairweather VK3YFD
Secretary	Peter Westgarth VK3APW	Ordinary Member	Doug Ellery VK3DRE
Treasurer	Chris Huggins VK3QY	Ordinary Member	David Martin VK3KQT
Ordinary Member	Craig Cook VK3KG	Ordinary Member	Mal White VK3OAK

NOTICE OF BARG Inc ANNUAL GENERAL MEETING

Notice is hereby given.
of the
Ballarat Amateur Radio Group Inc
Annual General Meeting.
Saturday 24th of August 2024 at 11:00am
with BBQ lunch to follow.

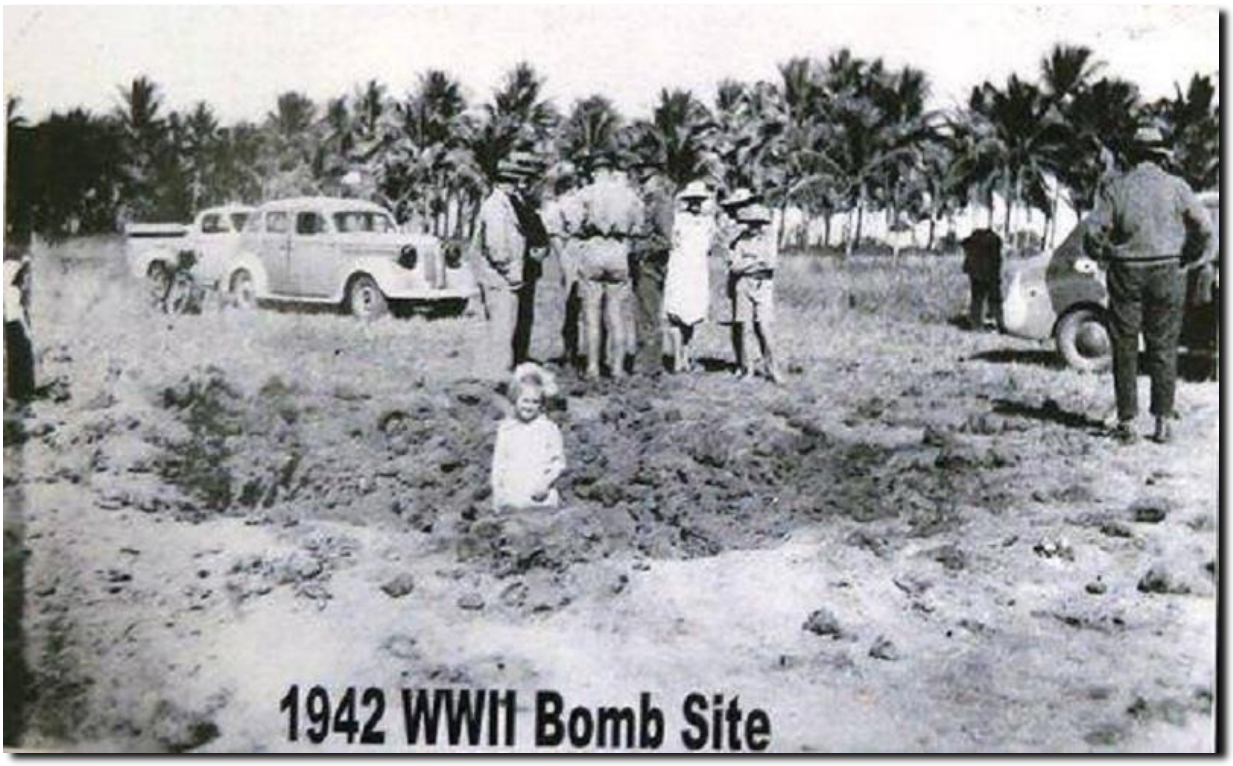
BAREC RADIOFEST 2024

Australia Under Attack: Townsville, July 1942

Contributors Ray VK4OIL and Mike VK4MIK

The Townsville Amateur Radio Club Inc.
P.O. Box 333, Garbutt East, QLD, 4814
affiliated with : Wireless Institute of Australia

In July 1942, the 2nd Group of 14th Kokutai (Air Group), Japanese Naval Air-Force, under the command of Major Misaburo Koizumi, decided to undertake night raids on harbour facilities and airfields at Townsville. In all, five raids were planned; three actually occurred. The raids occurred over three nights between 25 and 29 July 1942.



There were 3 Japanese bombings of Townsville during world War 2 and the only damage was to a bunch of palm trees and a large hole !!

Another bombing attempt was tried for Cairns, but they managed to bomb near a farm north of Mossman where a young girls suffer some injuries but recovered.

Most Australians do not know about these events hence Ray VK4OIL and Townsville Amateur Radio Club members are activating the site on the anniversary.

The Event;

- Anniversary 40metre activation of Oonoonba Bomb Site

Ray/VK4OIL has received permission to run a multiple HF field station at the WW2 Heritage Oonoonba Bomb Site on Monday 29th July 2024.

The operation will commemorate the early morning explosion of a 250 pound Bomb at the Oonoonba site which left a crater and the destruction of a palm tree.

Ray plans for the operation to start at 2pm local (0400UTC) and start Completing around 4pm local (0600UTC) and invites as many local hams as possible that can come along and set up their portable 40metre stations on the site with working centred around 7100kHz LSB, with net co-ordination and spotting performed by VK4WIT at the TARCinc Club Station at West End.

Ray also asks that DX stations in Australia and overseas actively operate to Contact the commemorative stations operating from the WW2 Heritage Oonoonba Bomb Site to help support maintaining the site as an important community resource.

If you wish to find out more.
Please contact Ray/VK4OIL on mobile 0409 888 875

It's fine to eat a test grape in the produce section, but you take one bite of rotisserie chicken and it's all, "Sir, you need to leave!"

Ask your doctor if a drug with 32 pages of side effects is bad for you.

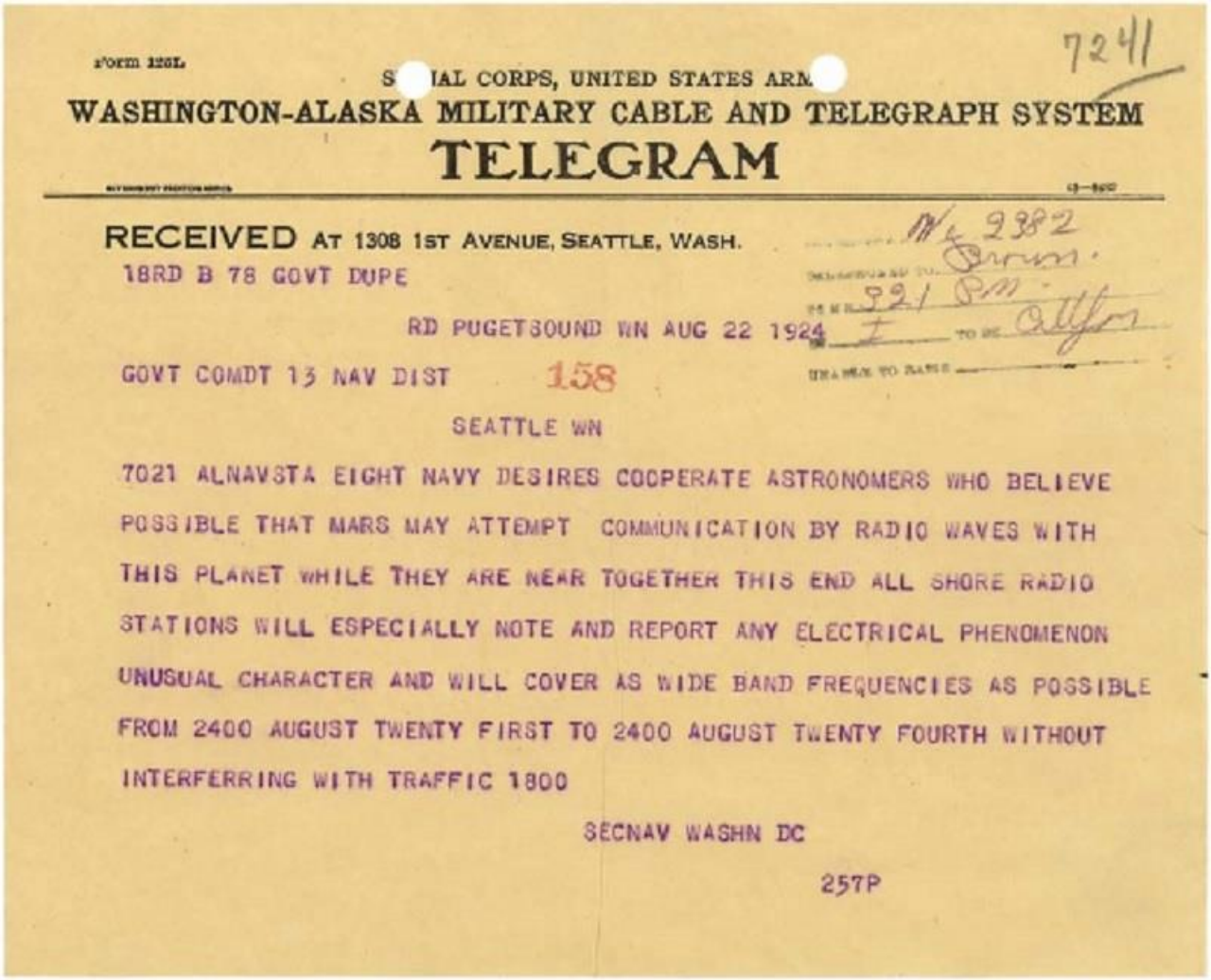
As I watch this generation try to rewrite history, one thing I am sure of is that it will be misspelled and have no punctuation.

Prepare For Contact

Here's a 1924 telegram from then Chief of U.S. Naval Operations, Edward. W. Eberle.

Instructing all Naval stations to monitor the airwaves for any unusual transmissions due to anticipated contact from Martians. August 22nd of that year was witness to the closest Mars opposition since 1804 (a mere 55,777,566 km), and as such provided desirable conditions in which to receive radio signals from the Red Planet.

The man tasked with clearing the airwaves - a Professor David Todd - somehow managed to persuade both the Army and Navy to report any findings for a three-day period but failed to silence the country's private radio broadcasters for even two days. Needless to say, the three-day exercise produced nothing but static.



7241

FORM 126L

SIGNAL CORPS, UNITED STATES ARMY

WASHINGTON-ALASKA MILITARY CABLE AND TELEGRAPH SYSTEM

TELEGRAM

RECEIVED AT 1308 1ST AVENUE, SEATTLE, WASH.

W 2382

18RD B 78 GOVT DUPE

RD PUGETSOUND WN AUG 22 1924

921 PM

GOVT COMDT 13 NAV DIST 158

SEATTLE WN

7021 ALNAVSTA EIGHT NAVY DESIRES COOPERATE ASTRONOMERS WHO BELIEVE POSSIBLE THAT MARS MAY ATTEMPT COMMUNICATION BY RADIO WAVES WITH THIS PLANET WHILE THEY ARE NEAR TOGETHER THIS END ALL SHORE RADIO STATIONS WILL ESPECIALLY NOTE AND REPORT ANY ELECTRICAL PHENOMENON UNUSUAL CHARACTER AND WILL COVER AS WIDE BAND FREQUENCIES AS POSSIBLE FROM 2400 AUGUST TWENTY FIRST TO 2400 AUGUST TWENTY FOURTH WITHOUT INTERFERRING WITH TRAFFIC 1800

SECNAV WASHN DC

257P

https://web.archive.org/web/20090912070526/http://www.lettersofnote.com/

The End Of An Era: Z80 RIP

Contributor: Tom VK3DMK

Zilog, the company behind the iconic Z80 CPU released in 1976, has announced the discontinuation of this legendary 8-bit processor after 48 years in the market.

Many of us more mature members will have amongst other CPUs of the time, like the 4040 and 8080, cut their teeth on the Z80.

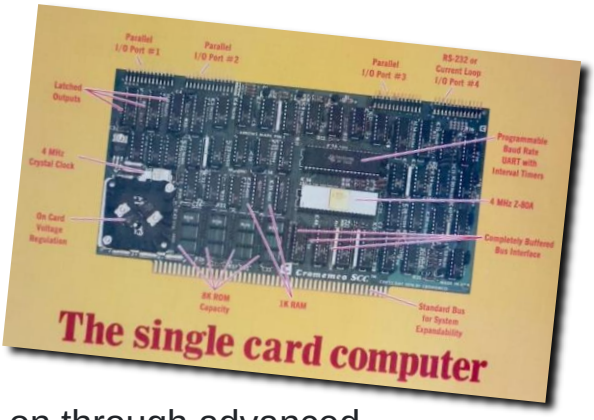
This was my first “micro-controller” that I learnt machine code with.

The Z80's versatility and efficient design led to its widespread adoption and enduring legacy in the computer and industrial control industry.

The Z80, with its 8080 binary compatibility, single supply voltage, and reduced support chip requirements, easily fits on a single card in a desktop S100 “mainframe” box that was developed at that time to help with designing and communicating with the outside world.

The Z80 powered the 1970s' three most popular small business computer lines from Cromemco, Vector Graphic, and North Star.

For the first time, office users could run word processing software like WordStar or database management like dBase II without resorting to big system timeshare or expensive minicomputers.



The Z80 could be configured as a single card computer with I/O onboard to connect to many different peripherals.

It is the end of an era, but Zilog's legacy lives on through advanced microcontroller products.

https://www.electropages.com/blog/2024/05/discontinued-zilog-z80-cpu-marks-end-of-an-era
https://www.allaboutcircuits.com/news/end-of-era-zilog-discontinues-z80-microprocessor/

BARG HF ROSTER TILL THE END OF 2024

BARG Net runs from 2000 hrs every Thursday night on 3608 kHzs+ QRM. And follows on from the CLIPBOARD NET WHICH COMMENCES AT 1930 HRS.

Date 2024	Operator		Backup
06-Jun	Doug VK3DRE		Robert VK3ARM
13-Jun	Robert VK3ARM		Craig VK3KG
20-Jun	Craig VK3KG		Ian VK3AXH
27-Jun	Ian VK3AXH		Chris VK3QY
04-Jul	Chris VK3QY		Andy VK3COE
11-Jul	Andy VK3COE		Paul VK3TXR
18-Jul	Paul VK3TXR		Doug VK3DRE
25-Jul	Doug VK3DRE		Robert VK3ARM
01-Aug	Robert VK3ARM		Craig VK3KG
08-Aug	Craig VK3KG		Ian VK3AXH
15-Aug	Ian VK3AXH		Chris VK3QY
22-Aug	Chris VK3QY		Andy VK3COE
29-Aug	Andy VKCOE		Paul VK3TXR
05-Sep	Paul VK3TXR		Doug VK3DRE
12-Sep	Doug VK3DRE		Robert VK3ARM
19-Sep	Robert VK3ARM		Craig VK3KG
26-Sep	Craig VK3KG		Ian VK3AXH
03-Oct	Ian VK3AXH		Chris VK3QY
10-Oct	Chris VK3QY		Terry VK3UP
17-Oct	Terry VK3UP		Andy VK3COE
24-Oct	Andy VK3COE		Paul VK3TXR
31-Oct	Paul VK3TXR		Doug VK3DRE
07-Nov	Doug VK3DRE		Robert VK3ARM
14-Nov	Robert VK3ARM		Craig VK3KG
21-Nov	Craig VK3KG		Ian VK3AXH
28-Nov	Ian VK3AXH		Chris VK3QY
05-Dec	Chris VK3QY		Terry VK3UP
12-Dec	Terry VK3UP		ANDY VK3COE
19-Dec	ANDY VK3COE		Paul VK3TXR
26-Dec	(Paul VK3TXR)		(Doug VK3DRE)

For each operator you are asked to be there only for two consecutive nights. The For each operator you are asked to be there only for two consecutive nights. The one where you are nominated as the main NC Station and the week before to be prepared to step in if the nominated person isn't available or is delayed in coming up in time. There is another net preceding the BARG net and its best to come up early and listen in until you hear who is present as usually the same people will follow through to the BARG net.

Boxing day. After Christmas. No formal net but members are encouraged to check informally.

MERRY CHRISTMAS TO ALL MEMBERS OF BARG AND HAPPY NEW YEAR 2025..

BARG Members Club Dining Events

There are two monthly social events planned.

The ladies' morning coffee is planned for the first Tuesday morning of each month at 10:00am at **Live it Up**.
Greenhill Enterprise Centre, University Drive, Mt Helen

The dining day/night events are held on the 3rd Friday of each month at locations to be announced.

Daytime events will occur 3rd Saturday of each month at midday.

Notices will be sent out as a reminder to get numbers etc prior to booking each dinner.
Cheers. Ian VK3AXH

BARG Coffee Mornings

YOU MAY HAVE NOTICED OVER THE LAST COUPLE OF NEWSLETTERS, I HAVE USED SOME MEMBERS' PHOTOGRAPHS ON THE FRONT PAGE.
I HOPE TO CONTINUE THIS THEME BUT NEED HELP FROM READERS TO SUPPLY IMAGES EVEN REMOTELY CONNECTED WITH AMATEUR RADIO/ELECTRONICS.

UNITED KINGDOM BUNKERS ON THE AIR

The Bunkers on the Air (BOTA) programme was born in 2005.

UKBOTA is born of a desire to rekindle interest in the activation of ROC Bunkers. The idea of activating bunkers originally came from Brian G8GMU and his grandson Joshua M3HBM almost 20 years ago, who with the Coventry Amateur Radio Society, activated several bunkers in their local area.

Subsequently, by 2010, a Bunkers on the Air scheme was integrated into into Castle and Stately Homes On The Air Team (CASHOTA) By Chris Darlington M0DOL. The good work (and recent support) of those who ran the previous activities and schemes is acknowledged with gratitide.

A UKBOTA event was run in October 2023, focussed on Royal Observer Corps posts was dedicated to the memory of M0DOL (now SK).

Whilst not a contest, awards (PDF certificates) will be issued to both activators and hunters submitting logs and demonstrating QSO with the requisite number of stations. Awards are also available for SWL submitting reception logs.

https://bunkersontheair.org/site/

Darwin Military Museum

Our roving correspondent Colin, VK3NCC.

The Darwin Military Museum. A must visit destination when in Darwin.

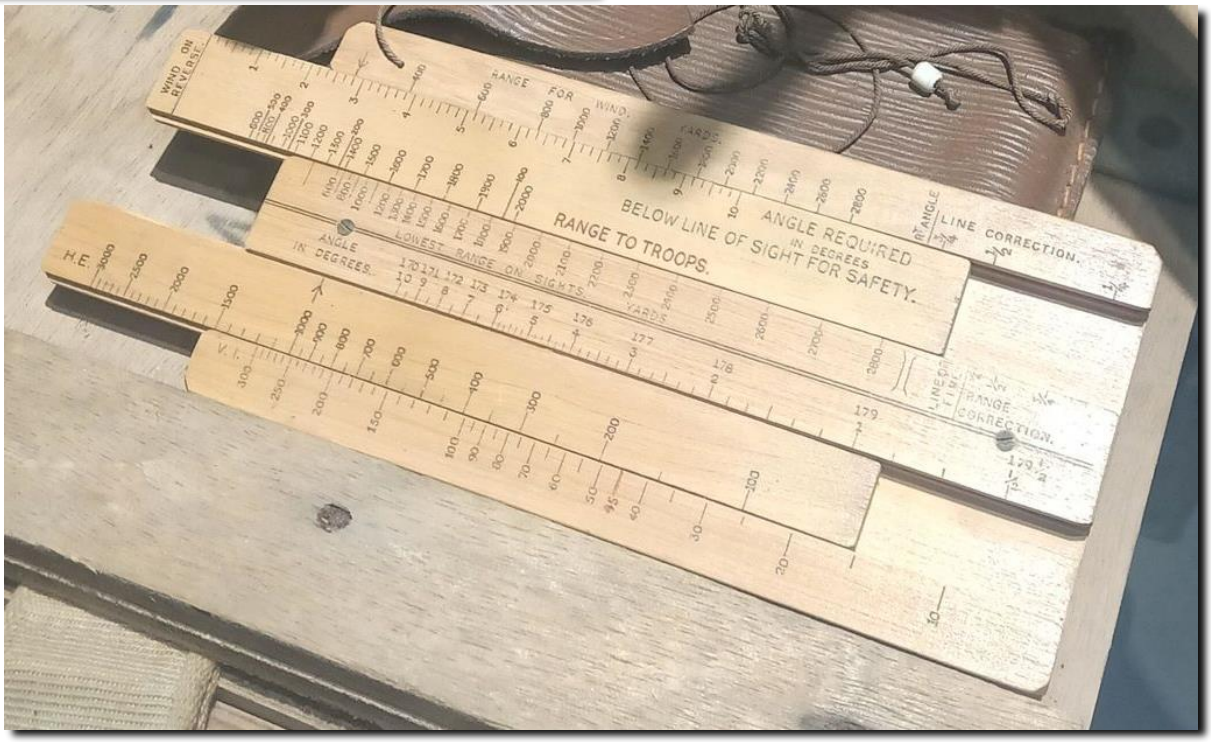
"The Australian flag you see hanging on the wall behind the model of East Point fortifications was salvaged (rescued) from the RAAF Base Darwin by the late Jim Wilkins, a 12 Squadron member in 1942

The flag was recovered after the first Japanese air raids on Darwin on 19th February 1942 and remained in the possession of the Darwin Defenders 1942-45, until it was presented to the City of Darwin Council on permanent loan in June 2014, the City of Darwin Council presented the Sag in the Darwin Military Museum for display and safekeeping.

The Museum is both honoured and proud to display (fly) the flag.

The signatures on the flag are those of 12 Squadron members who were present on the 19th February 1942.

Other items on display included AR7 receiver and military transcievers, posters of the time along with maps and a slide rule for ballistic calculations for gunnery crews.



“Lest We Forget"
http://darwindefenders.com/
https://www.darwinmilitarymuseum.com.au/#/
It is a real "must see and visit" destination in Darwin...

44th A.L.A.R.A. CONTEST

NOTE: Contest is always on the last FULL weekend of August.

ELIGIBILITY: All licensed operators throughout the world are invited to participate. Scout and Girl Guide groups are encouraged to participate using their Club's equipment and callsign.
OBJECT: Participation: YLs work everyone; OMs work YLs only.
CONTEST: Combined phone and CW run over 24 hours:
STARTS: Saturday 25th August 2024 at 0600 hours UTC
ENDS: Sunday 26th August 2024 at 0559 hours UTC
SUGGESTED FREQUENCIES: All HF Bands except 160m & WARC Bands.
Contacts made on ECHOLINK will also be accepted.
OPERATION:

- YLs operating with their own callsigns.
- YLs from Scout and Girl Guides groups using their Club's equipment/callsign with a licensed Amateur present.
- Second operators. If YL is operating as a 2nd operator, her husband/partner **CANNOT** participate in the contest.
- Every individual phone or CW contact may be counted.
- There must be an interval of greater than **1 hour** between contacts with any one station on any one band and in the same mode.
- All contacts must be made in accordance with operator and station licence regulations.

PROCEDURE: Phone: Call "CQ ALARA CONTEST"
CW: YLs call "CQ TEST ALARA"
OMs call "CQ YL"

EXCHANGES: **ALARA member:** RS or RST, serial no. starting at 001, ALARA member, name.
YL non-member, OM: RS or RST, serial no. starting at 001, name and whether YL or OM.
OMs work YLs only

SCORING: **Phone:** 5 points for ALARA member logged
4 points for YL non-member logged or Scout and Guide groups (YL's)
3 points for OM logged including from Scout groups (OM's)
CW: **All contacts made on CW count for double points**

OM or Scout group(OM's):
5 points for ALARA member logged
4 points for YL non-member logged or Scout and Guide groups (YL's)

LOGS:

- Single log entry. Logs must show date, UTC time, band, mode, call sign worked, report and serial number sent, report and serial number received, first name of operator of station worked and points claimed.
- Scout and Girl Guide participants should also include their patrol name.
- **Please note in mode if contact is on Echolink.**
- Paper logs or electronic logs are both welcome.
- **LOGS MUST** show full name, call sign and address of operator, and show final score (points claimed).
- **ELECTRONIC LOGS MUST** BE IN A FORMAT WHICH CAN BE PRINTED BY MICROSOFT WORD OR MICROSOFT EXCEL.
- Logs must be legible. No logs will be returned. Decision of the Contest Manager will be final, and no correspondence will be entered into.

Click here to download the General Logging Spreadsheet

30th September 2024 CONTEST MANAGER: Mrs Marija Simmonds, PO Box 169, Mount Barker SA 5251 AUSTRALIA or: alaracontest@wia.org.au

DX Code of Conduct

- I will listen, and listen, and then listen again before calling.
- I will only call if I can copy the DX station properly.
- I will not trust the DX cluster and will be sure of the DX station's call sign before calling.
- I will not interfere with the DX station, nor anyone calling and will never tune up on the DX frequency or in the QSX slot.
- I will wait for the DX station to end a contact before I call.
- I will always send my full call sign.
- I will call and then listen for a reasonable interval. I will not call continuously.
- I will not transmit when the DX operator calls another call sign, not mine.
- I will not transmit when the DX operator queries a call sign not like mine.
- I will not transmit when the DX station requests geographic areas other than mine.
- When the DX operator calls me, I will not repeat my call sign unless I think he has copied it incorrectly.
- I will be thankful if and when I do make a contact.
- I will respect my fellow hams and conduct myself so as to earn their respect.

https://www.ahars.com.au/dx-code-of-conduct.html

RENEWING? JOINING?
Consider these things –

Advocacy Education
Support

The Wireless Institute of Australia

Congratulations

In becoming a radio amateur, you have joined the ranks of more than 13,000 Australian radio amateurs and a worldwide fellowship of some 3 million, from all walks of life.

Your voice since 1910

The WIA – a united, truly national organisation run by radio amateurs for radio amateurs.

Join, benefit and contribute.
Here's what you get and what you can do.

WIA membership benefits

***Amateur Radio* magazine**
– supporting your interests

6 issues a year – print and online

- The trusted source for Australian amateur radio since 1933
- Covering ***all facets*** of amateur radio
- Produced ***by*** Australian amateurs ***for*** Australian amateurs
- Hamads free – For-sale/Wanted – print and online

***Discount* Card – gets discounts at vendors**

WIA Online Bookshop – supporting your self-learning

A curated list of recommended books from trusted sources

- WIA books discounted to members, e.g. Foundation Manual

QSL Service – supporting your on-air activities

Send and collect your precious QSL cards. Free to members!

Awards

Go for gold! Well, at least a certificate

Contests

Want to test yourself? And your station?

- HF, VHF/UHF. Field days. Local and multi-national contests

The WIA – the one source you can trust

Advancing and protecting our privileges

- Every licensee has a stake!
- Collective action over decades achieved all we enjoy
- Your trusted voice with the authorities – nationally and globally
- Effective, regular consultations with the amateur fraternity
- Always ensuring our privileges are aligned internationally

Protecting our spectrum

- Retained continuing access to the 6m, 70cm, 13cm & 9cm bands
- Always acting to have intruders removed from our bands
- Opposing interference threats

National news service – VK1WIA

- Keep up-to-date – local, global and space news
- Weekly *nationwide* broadcasts – 30 minutes of audience-based news
- On the bands and online in text, audio and video
- Trusted support for amateur radio clubs and societies

Member Engagement

- Website – www.wia.org.au
- Facebook – www.facebook.com/wiavk
- Podcast – www.wia-files.com/podcast/wianews.xml
- Twitter – twitter.com/VK1WIA
- Youtube – tinyurl.com/WIA-News-Videos
- Memnet – member-exclusive email bulletins

WIA history

Our origins go back to 1910, when the first Institute was formed to represent wireless experimenters to the government. Major reform of the Radiocommunications Act over the early 2000s, and to amateur radio licensing worldwide, saw a single national organisation formed in 2004 to meet the emerging challenges

WIA around the world

The WIA represents you internationally. We're a member of the International Amateur Radio Union (IARU), which advocates for amateurs' interests to the International Telecommunications Union, particularly at its World Radio Conferences. These determine global radio regulations and frequency allocations.

The WIA is the only Australian amateur radio body with membership of the International Amateur Radio Union.

WIA national office: Unit 20, 11-13 Havelock Road, Bayswater, Victoria 3153
Hours: 9am-5pm EAST, Mon-Fri. Postal: PO Box 2042, Bayswater, Vic 3153

Join or renew / encourage a friend

Use our Online Membership system, visit:
www.wia.org.au/joinwia/wia/onlinejoin/
Or call (03) 9729 0400.

GOT A NEW LICENCE? 1-Year Additional Membership on us!

If you have received an Amateur Operators Certificate of Proficiency (AOCP) – Foundation, Standard or Advanced – or if you are an Amateur Radio Operator, SWL or other interested party and at any time have not previously been a member of the WIA, you may be eligible for an additional 1- year membership extension to your first years WIA membership subscription*.

If this is you, or someone you know, all that is needed is to complete a WIA membership application form (hard or soft copy) along with a copy of the relevant AOCP qualification (or equivalent if applicable) showing the date of qualification attainment and send them to the WIA head office for processing.
Join now and start receiving all the benefits of WIA membership.

(* Subject to WIA Membership being approved and WIA Membership Terms and Conditions being fully met.)

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Magazine Reviews

Amateur Radio Magazine WIA Vol 92 Number 3

P3 Contents

P4 Editorial, Roger VK2ZRH. A personal philosophy, varied aspects of the hobby, a parable and some Aussie poetry.

P5 Board Comment. Scott VK3KJ. A rundown of the WIA AGM and accompanying Hamvention. Awards, questions and answers with around 70 attendees.

P5 WIA news. AR3663 and AR3664 sunspots, return of the Pacific Air Show 16-18 August, 40MHz for Spanish operators, HMAS Vampire amateur radio station one year old. The ship is moored at the Australian National Maritime Museum.

P10 Lightning Scatter on 1296MHz using MSK144. Rex VK7MO and Brodie VK3MAP. Details and basics of scatter from lighting strikes and their successful efforts.

P15 Comprehensive, innovative test sets for processing homebrew transmitters. Part 1. Lou VK3AQZ. Discussion and construction details of the test gear Lou has built while building his many homebrew projects.

P23 A GPS-controlled frequency reference to build, for the shack or in the field. Part 2. Parts procurement and test procedures and some of the important parts.

P28 The testing twists of grappling with transconductance. Phil VK2ASD. The meaning of transconductance and what it means in a circuit with respect to valves and BJTs.

P34 A track-and=hold external VFO for tuning older radios. Jim VK3JST. A unit to get the best out of your rig if it has no digital readout and you yearn for the low drift characteristics of digital VFOs. Uses an Arduino Nano and AD9950 or 9851 DDS.

P43 Adaptation and adoption of technology revealed in past QSLs. Fred VK3DAC, VK4FE. From a QSL card 4HB dated 15th May 1925, Fred looks back in history at the card owner, Mr. Howard Edward Baker, and the equipment and who he contacted in the era

P45 Amateur radio to the rescue.. again. Rick VK7RI. An account of an equine endurance ride in VK7 and how amateur radio helped with attending an injured competitor who needed Ambulance attention and transport to hospital.

P47 Homebrew three-band 100W HF Transceiver. Lou VK3AQZ. Making the case and assembling the hardware onto panels, PCB manufacture and some test point measurements around the completed circuit.

P53 SK. Neville Chivers VK2YO.

P54 SK. Peter Lord VK3FPL/4.

P55 Contesting. Peter VK2PR. WIA Contest Champion results for 2022

P56 WestNews. Will McGhie. A look at Steve VK6HV shack and antennas.

P58 ALARA. Jenny VK3WQ. ALARA grants, contest, Redfest 2024. Details and rules for 44th ALARA Contest 2024.

P60 2024 John Moyle Memorial National Field Day Contest results. Denis VK4AE

P64 WIA DX Awards. Marc VK3OHM/VK3IP and Graham VK3GA.

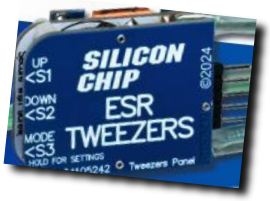
Silicon Chip June 2024 Review

P16 Privacy Phones. Looks at the seemingly endless things that our modern smart phones are capable of, including Meta data and location data being sent back to app designers and phone manufacturers. What apps do it, for who, what data and how?

P32 Electronex 2024. An event held since 2010, involving manufacturers, distributors, innovators and seminars on the latest technological advances. This year in Sydney on the 19th and 20th June.

P46 Mini Projects #005, Self-Toggling Relay. A simple circuit using one relay and some passive components to make a single push button ON/OFF switch.

P49 Mini Projects #006, Arduino Clap Light. A sound activated light, “clap”/”ON”, “clap”/”OFF” using a Leonardo and some options like a 433MHz link to remotely turn devices ON/OFF.



P54 ESR Test Tweezers. Another variant of the test tweezers that measures ESR and capacitance. Using a 3V button cell with an OLED screen configured to rotate depending on left or right handed use.

P64 MicroMag3 3-axis Magnetic Sensor. Investigates the module that can be used as a compass as well as an inclinometer. Looking at its availability and possible uses.

P68 USB-C Serial Adapter. Basically, a breakout board to provide a 3V3 UART to USB-C conversion, all in one packet from 47baud to 3 MBaud.

P74 DC Supply Detectors. Three simple circuits designed to detect, reverse polarity and over voltage in fixed or adjustable form on through hole or SMD PCBs.

P82 WiFi DDS Function Generator. Part 2. The construction and setup of this versatile project.
P90 Serviceman's Log. Coin operated washer, Seiko watch pressure tester, Leaf Blower Li-on batteries, Silicon Chip 20W Amplifier, USB Sound Card, some microwave oven repairs.
P97 Circuit Notebook. Arduino bin reminder, programming a Micromite over Bluetooth.
P99 Vintage Radio. HeathKit, GW-21A Handheld Transceivers. Germanium transistor based kit from HeathKit, incorporating a single stage superhet design they became a popular product, even appearing in TV programs and movies.

Famous people around the world who are/were HAM radio operators

Rajiv Gandhi, VU2RG, (1944-1991), former Prime Minister, Republic of India
General Curtis LeMay, W6EZV, (1906-1991), Vice-Presidential Candidate,1968

Marlon Brando, FO5GJ, (1924-2004), Actor
Burl Ives, KA6HVK, (1909-1991), Singer
Donny Osmond, ex-KA7EVD (expired), (1957-), Entertainer
Patty Loveless (born Patricia Ramey), KD4WUJ, (1957-), Musician
Larry Junstrom, KN4UB, (1957-), Rock Musician (".38 Special")
Stewart Granger (born James Stewart), N6KGB, (1918-1993), Actor
Priscilla Presley, N6YOS, (1945-), Actress
Chet Atkins, WA4CZD (1924-2001), Musician
Ronnie Milsap, WB4KCG, (1943-), Musician
Joe Walsh, WB6ACU, (1947-), Rock Musician ("Eagles", "James Gang")
Walter Cronkite, KB2GSD, (1916-2009), Network News Anchorman - CBS (retired)

Dick Rutan, KB6LQS, (1938-2024), pilot of Voyager aircraft, the first to fly non-stop around the world.
Jeana Yeager, KB6LQR, (1952-), co-pilot of Voyager airplane (see above)

Percy L. Spencer W1GBE, (1894-1970)Inventor of the Microwave Oven.

Harry Angel VK4HA Australia's oldest radio amateur (SK) 106 on 12/14/1997

Yuri Gagarin UA1LO (1934-1968) First Cosmonaut

BARG Office Bearer Nomination Forms

B.A.R.G. Inc. NOMINATION FORM

Ballarat Amateur Radio Group—Inc # 6953T

DATE: _____

I wish to Nominate _____ CALL: _____

For the position of _____ of BARG Inc.

Nominated by: _____ and _____

Nomination accepted by: (Nominee) _____

B.A.R.G. Inc. NOMINATION FORM

Ballarat Amateur Radio Group—Inc # 6953T

DATE: _____

I wish to Nominate _____ CALL: _____

For the position of _____ of BARG Inc.

Nominated by: _____ and _____

Nomination accepted by: (Nominee) _____